

Title (en)

APPARATUS FOR THE DETERMINATION OF MAGNETIC DOMAINS

Publication

**EP 0331135 A3 19920304 (DE)**

Application

**EP 89103555 A 19890301**

Priority

DE 3806808 A 19880303

Abstract (en)

[origin: US4983945A] A magnetic field can be detected by moving magnetized areas past a magnetoresistor, which responds to the changing magnetic field. The sensitivity to magnetic fields is limited by the width of the magnetoresistors used. To optimize the sensitivity, two spaced-apart ferromagnetic pole pieces (6, 7) are so disposed between the magnetoresistor and the magnetized areas that their ends (8, 9) at the magnetoresistor (4) form a first gap (10) having a width (11) on the order of the width (12) of the magnetoresistor (4), and that their ends (13, 14) at the magnetized areas form a second, considerably narrower gap (16).

IPC 1-7

**G01R 33/06**

IPC 8 full level

**G01R 33/09** (2006.01); **G06K 7/08** (2006.01)

CPC (source: EP US)

**G01R 33/09** (2013.01 - EP US); **G06K 7/087** (2013.01 - EP US)

Citation (search report)

- [A] US 4413296 A 19831101 - JEFFERS FREDERICK J [US]
- [A] US 4644430 A 19870217 - FRENCH WILLIAM [US]
- [A] EP 0220385 A1 19870506 - IBM [US]
- [X] PATENT ABSTRACTS OF JAPAN vol. 007, no. 042 (P-177)19. Februar 1983 & JP-A-57 191 818 ( MATSUSHITA DENKI SANGYO KK ) 25. November 1982
- [X] PATENT ABSTRACTS OF JAPAN vol. 007, no. 042 (P-177)19. Februar 1983 & JP-A-57 191 819 ( MATSUSHITA DENKI SANGYO KK ) 25. November 1982

Cited by

FR2761477A1; EP0662667A3; US5512822A; WO9844359A1

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